

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P531014

Luminaire Tested: **GALN-SA6B-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26641 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

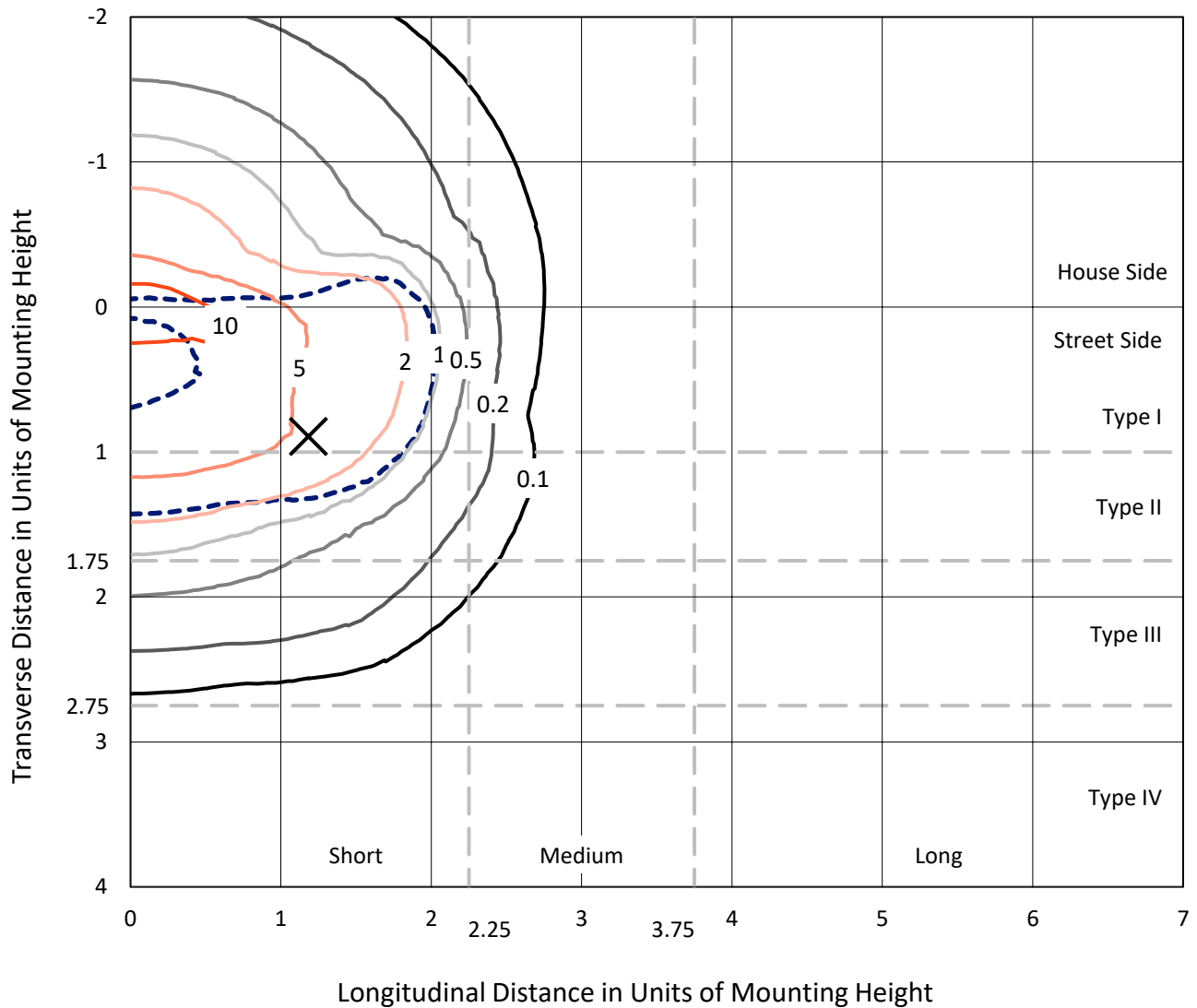
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

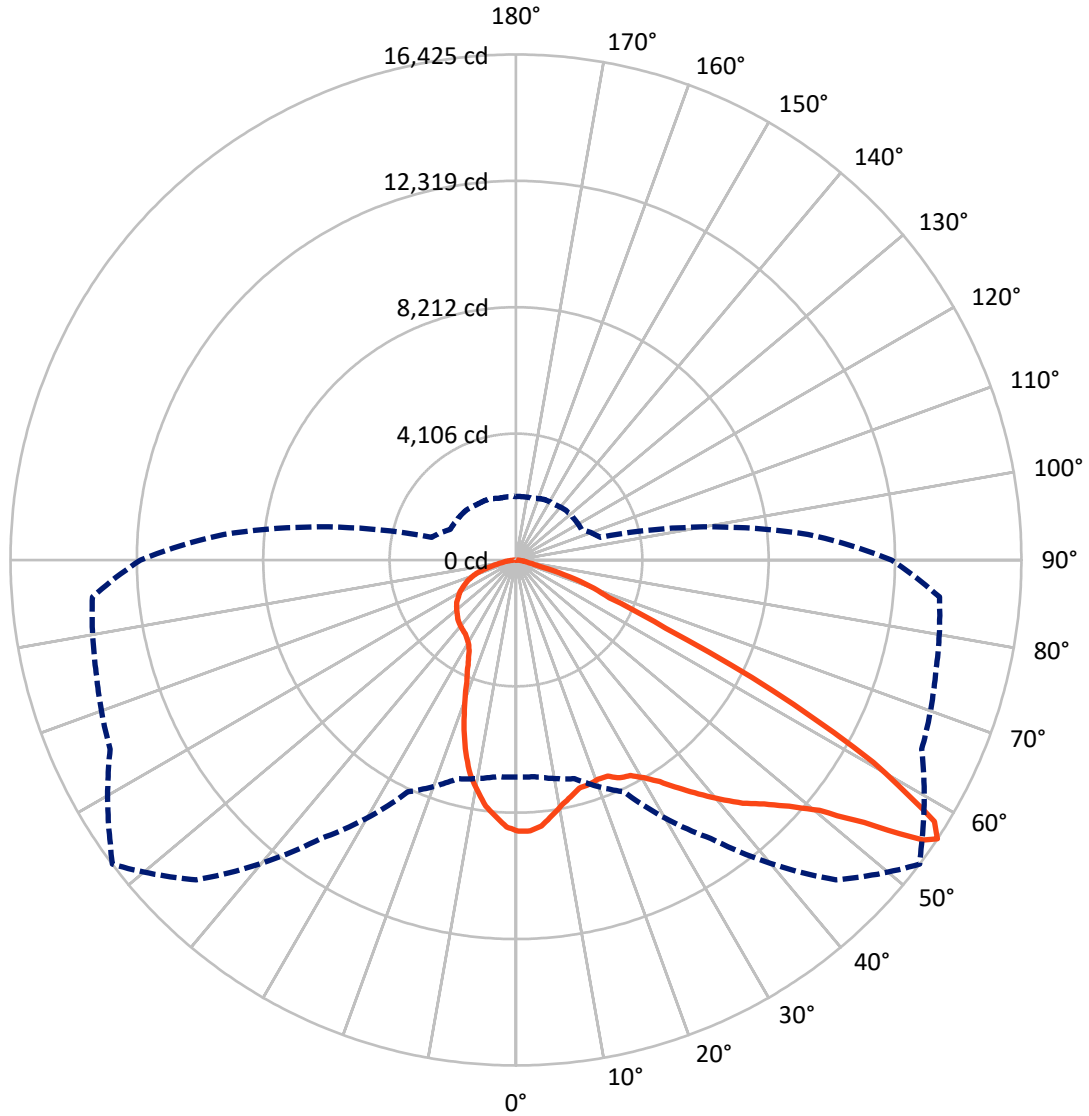
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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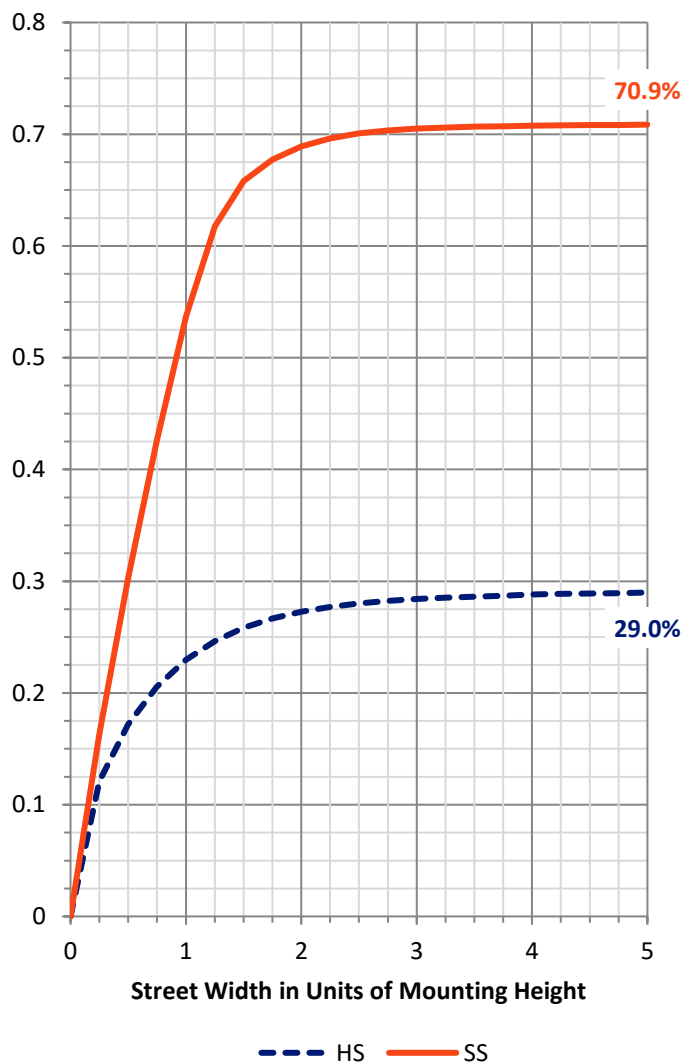
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7774.4 | 0.0 | 7774.4 |
| | % Fixture | 29.2 | 0.0 | 29.2 |
| Street Side | Lumens | 18866.6 | 0.0 | 18866.6 |
| | % Fixture | 70.8 | 0.0 | 70.8 |
| Total | Lumens | 26641.0 | 0.0 | 26641.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 780.3 | 2.9 |
| 10°-20° | 1948.8 | 7.3 |
| 20°-30° | 2873.7 | 10.8 |
| 30°-40° | 4105.9 | 15.4 |
| 40°-50° | 5651.3 | 21.2 |
| 50°-60° | 6678.3 | 25.1 |
| 60°-70° | 3559.1 | 13.4 |
| 70°-80° | 902.9 | 3.4 |
| 80°-90° | 140.8 | 0.5 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 26641.0 | 100.0 |
| 0°-180° | 26641.0 | 100.0 |

Coefficient of Utilization



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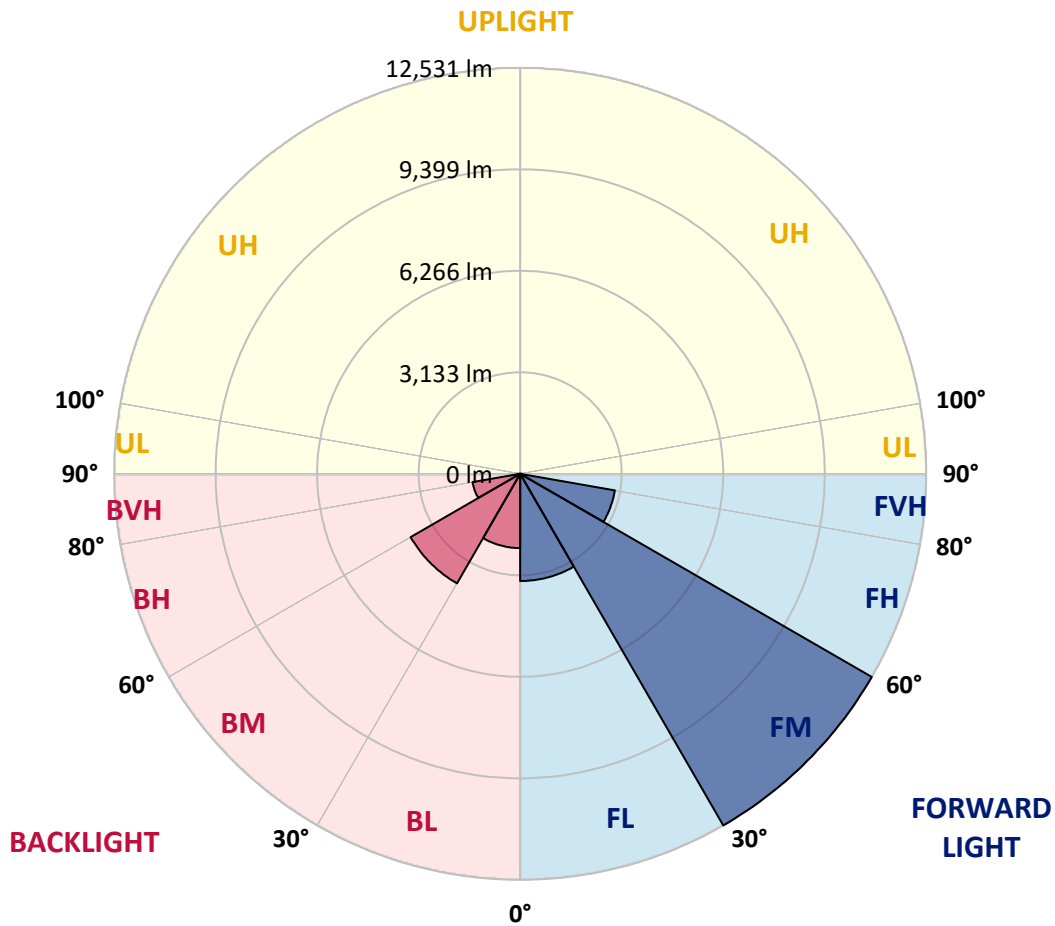
CATALOG NUMBER: GALN-SA6B-735-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3309.8 | 12.4 | | | |
| FM (30°-60°) | 12531.4 | 47.0 | | | |
| FH (60°-80°) | 2968.8 | 11.1 | | | G2/5000 |
| FVH (80°-90°) | 56.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2293.0 | 8.6 | B3/2500 | | |
| BM (30°-60°) | 3904.1 | 14.7 | B3/5000 | | |
| BH (60°-80°) | 1493.2 | 5.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 84.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8813.9 | 8813.9 | 8813.9 | 8813.9 | 8813.9 | 8813.9 | 8813.9 | 8813.9 | 8813.9 | 8813.9 | 8813.9 |
| 2.5° | 8704.5 | 8629.3 | 8673.8 | 8656.7 | 8796.8 | 8837.8 | 8817.3 | 8834.4 | 8913.0 | 8875.4 | 8796.8 |
| 5° | 8133.8 | 8239.7 | 8260.2 | 8311.5 | 8393.5 | 8554.2 | 8680.6 | 8714.8 | 8752.4 | 8926.7 | 8909.6 |
| 7.5° | 7614.3 | 7686.1 | 7648.5 | 7798.9 | 7976.6 | 8236.3 | 8390.1 | 8417.5 | 8762.6 | 8858.3 | 8930.1 |
| 10° | 7286.2 | 7214.5 | 7385.4 | 7426.4 | 7628.0 | 7925.3 | 8109.9 | 8222.7 | 8537.1 | 8916.4 | 8960.8 |
| 12.5° | 6982.1 | 6958.2 | 7060.7 | 7176.9 | 7402.4 | 7710.0 | 7898.0 | 7942.4 | 8427.7 | 8827.6 | 9036.0 |
| 15° | 6756.5 | 6729.2 | 6831.7 | 6917.1 | 7180.3 | 7453.7 | 7692.9 | 7819.4 | 8308.1 | 8776.3 | 8971.1 |
| 17.5° | 6578.8 | 6575.4 | 6633.5 | 6787.3 | 7057.3 | 7286.2 | 7672.4 | 7679.3 | 8246.6 | 8854.9 | 9025.8 |
| 20° | 6568.6 | 6565.1 | 6575.4 | 6746.3 | 6992.3 | 7272.6 | 7607.5 | 7669.0 | 8246.6 | 8800.2 | 9029.2 |
| 22.5° | 6654.0 | 6599.3 | 6660.8 | 6770.2 | 6947.9 | 7296.5 | 7631.4 | 7768.1 | 8444.8 | 9070.2 | 9183.0 |
| 25° | 6790.7 | 6804.4 | 6838.5 | 6876.1 | 6978.7 | 7351.2 | 7843.3 | 7956.1 | 8677.2 | 9302.6 | 9394.9 |
| 27.5° | 7040.2 | 7033.3 | 7047.0 | 7067.5 | 7156.4 | 7402.4 | 7928.7 | 8219.2 | 9162.5 | 9716.1 | 9623.9 |
| 30° | 7405.9 | 7381.9 | 7436.6 | 7508.4 | 7426.4 | 7566.5 | 8212.4 | 8431.1 | 9613.6 | 10133.1 | 9880.2 |
| 32.5° | 7737.4 | 7826.2 | 7928.7 | 7959.5 | 7860.4 | 7887.7 | 8588.3 | 8810.5 | 9989.5 | 10645.7 | 10194.6 |
| 35° | 8150.9 | 8222.7 | 8359.4 | 8455.0 | 8438.0 | 8355.9 | 9101.0 | 9394.9 | 10532.9 | 11021.6 | 10526.1 |
| 37.5° | 8554.2 | 8639.6 | 8865.2 | 9148.8 | 8991.6 | 8954.0 | 9647.8 | 9890.4 | 10700.4 | 11223.3 | 10768.7 |
| 40° | 9203.5 | 9200.1 | 9589.7 | 9736.6 | 9876.8 | 9811.8 | 10215.1 | 10297.1 | 10789.2 | 11178.8 | 10775.6 |
| 42.5° | 9965.6 | 9917.8 | 10314.2 | 10543.2 | 10724.3 | 10731.1 | 10806.3 | 10779.0 | 10830.3 | 10953.3 | 10703.8 |
| 45° | 10690.1 | 10792.7 | 11192.5 | 11602.6 | 11783.8 | 11804.3 | 11305.3 | 11254.0 | 10902.0 | 10888.4 | 10567.1 |
| 47.5° | 11575.3 | 11599.2 | 11927.3 | 12467.3 | 12887.6 | 12744.1 | 11951.2 | 11838.4 | 11216.4 | 11322.4 | 10796.1 |
| 50° | 11626.5 | 11804.3 | 12098.2 | 12733.8 | 14025.7 | 13988.1 | 12788.5 | 12576.6 | 11722.2 | 11937.5 | 11435.2 |
| 52.5° | 10553.4 | 10512.4 | 10861.0 | 11900.0 | 13940.2 | 15225.2 | 14176.0 | 13670.2 | 12809.0 | 12645.0 | 12470.7 |
| 55° | 8041.5 | 8137.2 | 8444.8 | 9494.0 | 12105.0 | 15242.3 | 16066.0 | 15652.4 | 13971.0 | 13690.8 | 13489.1 |
| 56° | 7053.8 | 7067.5 | 7358.0 | 8314.9 | 11045.6 | 14698.9 | 16424.8 | 16089.9 | 14548.6 | 14121.4 | 13813.8 |
| 57.5° | 5847.4 | 5768.8 | 5919.2 | 6442.1 | 9323.1 | 13550.6 | 16031.8 | 16359.9 | 15225.2 | 14586.2 | 14159.0 |
| 60° | 4603.5 | 4586.4 | 4524.9 | 4620.5 | 5891.9 | 10208.3 | 13345.6 | 14083.8 | 15156.9 | 14148.7 | 13560.9 |
| 62.5° | 3759.3 | 3673.9 | 3796.9 | 3933.6 | 4094.2 | 6332.7 | 9377.8 | 9811.8 | 12033.2 | 11295.0 | 10187.8 |
| 65° | 2915.2 | 2874.2 | 3028.0 | 3472.2 | 3567.9 | 4022.5 | 5341.6 | 5676.6 | 7105.1 | 6978.7 | 6144.8 |
| 67.5° | 2006.1 | 2012.9 | 2146.2 | 2822.9 | 3308.2 | 3267.2 | 3270.6 | 3444.9 | 3708.1 | 2754.6 | 2399.1 |
| 70° | 1271.3 | 1267.9 | 1339.7 | 1818.1 | 2662.3 | 2689.6 | 2552.9 | 2501.7 | 2371.8 | 1435.4 | 1520.8 |
| 72.5° | 816.8 | 792.9 | 830.5 | 1004.8 | 1377.3 | 1592.6 | 1640.4 | 1671.2 | 1373.9 | 1127.8 | 1223.5 |
| 75° | 461.4 | 437.4 | 423.8 | 468.2 | 543.4 | 628.8 | 690.3 | 710.9 | 796.3 | 854.4 | 905.7 |
| 77.5° | 140.1 | 126.4 | 153.8 | 205.1 | 270.0 | 362.3 | 440.9 | 454.5 | 536.6 | 604.9 | 656.2 |
| 80° | 61.5 | 68.4 | 95.7 | 136.7 | 191.4 | 256.3 | 311.0 | 331.5 | 386.2 | 437.4 | 451.1 |
| 82.5° | 37.6 | 41.0 | 64.9 | 92.3 | 133.3 | 181.1 | 222.1 | 229.0 | 283.7 | 324.7 | 334.9 |
| 85° | 13.7 | 17.1 | 34.2 | 54.7 | 85.4 | 116.2 | 116.2 | 126.4 | 116.2 | 116.2 | 126.4 |
| 87.5° | 0.0 | 0.0 | 3.4 | 6.8 | 6.8 | 10.3 | 13.7 | 13.7 | 17.1 | 20.5 | 23.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GALN-SA6B-735-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8813.9 | 8813.9 | 8813.9 | 8813.9 | 8813.9 | 8813.9 | 8813.9 | 8813.9 | 8813.9 | 8813.9 | 8813.9 |
| 2.5° | 8837.8 | 8820.7 | 8793.4 | 8694.3 | 8684.0 | 8653.3 | 8482.4 | 8455.0 | 8482.4 | 8400.4 | 8407.2 |
| 5° | 8820.7 | 8872.0 | 8666.9 | 8567.8 | 8383.3 | 8250.0 | 8096.2 | 8017.6 | 7877.5 | 7788.6 | 7887.7 |
| 7.5° | 8895.9 | 8875.4 | 8619.1 | 8403.8 | 8127.0 | 7788.6 | 7518.6 | 7364.8 | 7118.8 | 7050.4 | 7101.7 |
| 10° | 8868.6 | 8759.2 | 8458.5 | 8174.8 | 7651.9 | 7354.6 | 6917.1 | 6493.4 | 6261.0 | 6141.4 | 6124.3 |
| 12.5° | 8831.0 | 8800.2 | 8297.8 | 7809.1 | 7258.9 | 6633.5 | 6018.3 | 5618.5 | 5239.1 | 5075.1 | 5099.0 |
| 15° | 8875.4 | 8615.7 | 7997.1 | 7378.5 | 6647.2 | 5826.9 | 5163.9 | 4647.9 | 4384.7 | 4278.8 | 4278.8 |
| 17.5° | 8854.9 | 8526.8 | 7853.6 | 6896.6 | 5970.5 | 4999.9 | 4272.0 | 3961.0 | 3851.6 | 3851.6 | 3882.4 |
| 20° | 8865.2 | 8584.9 | 7563.1 | 6414.8 | 5170.8 | 4210.4 | 3680.7 | 3567.9 | 3615.8 | 3632.9 | 3650.0 |
| 22.5° | 8923.3 | 8393.5 | 7279.4 | 5885.0 | 4429.2 | 3602.1 | 3342.4 | 3345.8 | 3431.2 | 3523.5 | 3506.4 |
| 25° | 8995.0 | 8318.3 | 6934.2 | 5358.7 | 3861.8 | 3304.8 | 3222.8 | 3212.5 | 3277.4 | 3325.3 | 3332.1 |
| 27.5° | 8933.5 | 8188.5 | 6582.2 | 4702.6 | 3397.1 | 3106.6 | 3089.5 | 3096.3 | 3116.8 | 3212.5 | 3181.8 |
| 30° | 9135.1 | 8226.1 | 6141.4 | 4152.3 | 3140.7 | 3041.6 | 3021.1 | 3010.9 | 3041.6 | 3069.0 | 3045.0 |
| 32.5° | 9384.6 | 8092.8 | 5813.3 | 3622.6 | 3014.3 | 2993.8 | 2952.8 | 2939.1 | 2956.2 | 2928.9 | 2942.5 |
| 35° | 9494.0 | 8068.9 | 5386.1 | 3243.3 | 2915.2 | 2898.1 | 2874.2 | 2870.8 | 2874.2 | 2850.2 | 2829.7 |
| 37.5° | 9555.5 | 8181.6 | 4897.4 | 3069.0 | 2853.7 | 2870.8 | 2816.1 | 2809.2 | 2747.7 | 2761.4 | 2771.6 |
| 40° | 9661.4 | 8007.3 | 4500.9 | 2901.5 | 2816.1 | 2781.9 | 2734.0 | 2723.8 | 2682.8 | 2658.9 | 2682.8 |
| 42.5° | 9507.7 | 7956.1 | 4111.3 | 2829.7 | 2761.4 | 2723.8 | 2689.6 | 2631.5 | 2617.9 | 2597.3 | 2583.7 |
| 45° | 9384.6 | 7662.2 | 3762.7 | 2740.9 | 2696.5 | 2676.0 | 2611.0 | 2549.5 | 2498.2 | 2518.7 | 2488.0 |
| 47.5° | 9476.9 | 7559.6 | 3417.6 | 2665.7 | 2607.6 | 2583.7 | 2518.7 | 2470.9 | 2419.6 | 2395.7 | 2388.9 |
| 50° | 9846.0 | 7751.0 | 3127.1 | 2611.0 | 2532.4 | 2518.7 | 2433.3 | 2378.6 | 2330.8 | 2313.7 | 2320.5 |
| 52.5° | 10727.7 | 8273.9 | 2928.9 | 2498.2 | 2460.6 | 2399.1 | 2351.3 | 2282.9 | 2252.2 | 2197.5 | 2231.7 |
| 55° | 11845.3 | 9124.9 | 2877.6 | 2392.3 | 2371.8 | 2317.1 | 2252.2 | 2200.9 | 2142.8 | 2098.4 | 2088.1 |
| 56° | 12204.1 | 9531.6 | 2836.6 | 2351.3 | 2317.1 | 2286.3 | 2200.9 | 2170.2 | 2077.9 | 2067.6 | 2060.8 |
| 57.5° | 12494.6 | 9890.4 | 2843.4 | 2272.7 | 2238.5 | 2211.2 | 2159.9 | 2084.7 | 2023.2 | 1985.6 | 2002.7 |
| 60° | 11838.4 | 9258.2 | 2713.5 | 2153.1 | 2146.2 | 2095.0 | 2023.2 | 1989.0 | 1913.8 | 1869.4 | 1859.2 |
| 62.5° | 8800.2 | 6284.9 | 2200.9 | 1999.3 | 1995.9 | 1941.2 | 1859.2 | 1821.6 | 1807.9 | 1746.4 | 1746.4 |
| 65° | 5068.2 | 3940.4 | 1903.6 | 1872.8 | 1845.5 | 1790.8 | 1708.8 | 1678.0 | 1643.8 | 1623.3 | 1606.3 |
| 67.5° | 2163.3 | 2043.7 | 1729.3 | 1725.9 | 1695.1 | 1626.8 | 1544.7 | 1496.9 | 1452.5 | 1411.5 | 1432.0 |
| 70° | 1568.7 | 1592.6 | 1561.8 | 1544.7 | 1507.1 | 1421.7 | 1349.9 | 1291.8 | 1223.5 | 1196.1 | 1216.7 |
| 72.5° | 1244.0 | 1295.3 | 1339.7 | 1343.1 | 1298.7 | 1199.6 | 1121.0 | 1042.4 | 967.2 | 929.6 | 946.7 |
| 75° | 943.2 | 977.4 | 1021.9 | 1032.1 | 967.2 | 898.8 | 823.6 | 741.6 | 683.5 | 639.1 | 645.9 |
| 77.5° | 680.1 | 673.3 | 714.3 | 707.4 | 676.7 | 628.8 | 560.5 | 485.3 | 420.4 | 379.3 | 382.8 |
| 80° | 464.8 | 475.0 | 499.0 | 495.5 | 458.0 | 427.2 | 375.9 | 314.4 | 266.6 | 232.4 | 225.6 |
| 82.5° | 324.7 | 341.8 | 362.3 | 345.2 | 314.4 | 283.7 | 246.1 | 201.6 | 164.0 | 136.7 | 129.9 |
| 85° | 116.2 | 133.3 | 153.8 | 164.0 | 174.3 | 167.5 | 140.1 | 112.8 | 82.0 | 68.4 | 64.9 |
| 87.5° | 23.9 | 27.3 | 30.8 | 30.8 | 30.8 | 27.3 | 23.9 | 23.9 | 20.5 | 10.3 | 10.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)